

Recall:

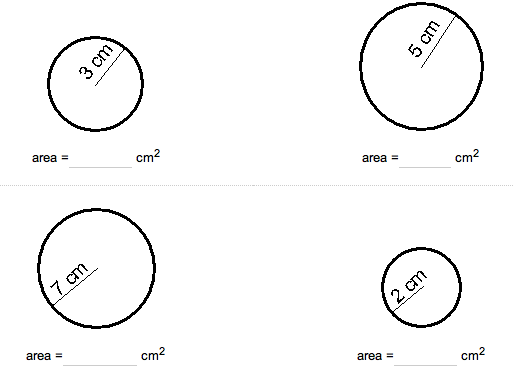
Area is the number of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that fit inside a given figure.

Area of a Circle:

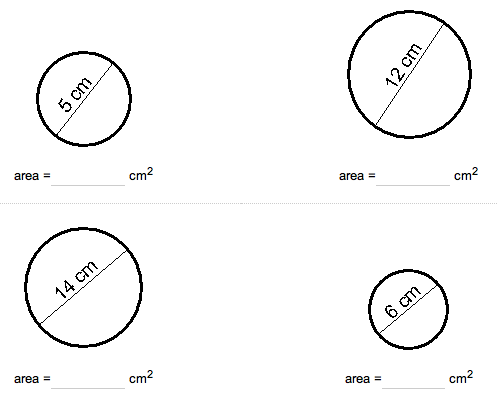
For circles, it turns out exactly \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ squares with a side length *r* fit inside of the circle. For this reason, the **AREA FORMULA FOR A CIRCLE IS**:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

So, not only is π the ratio of circumference to diameter, it is also the ratio of

a circle’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ squared.

I DO: 1. 2.

3. 4.

WE DO:

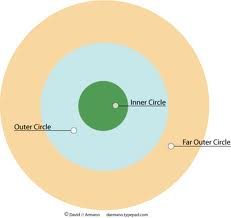
5. 6.

7. 8.

I DO:

9. Inner circle radius=5in.

Far outer circle radius=7in.

outer circle area=

WE DO:

11. world radius=20mi

kids’ height=2mi

total area=

YOU DO:

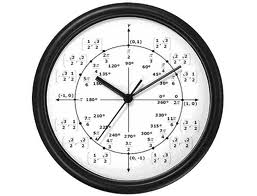
13. inner circle (light) radius=20ft

distance from inner circle to outside=200ft

total area=

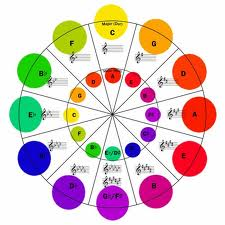
10. clock area=40in2

long hand is 1in. away from the edge of the frame

what area does the long hand cover?

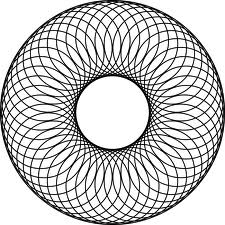
12. total area=18cm2

distance between colored circles=3cm

inner circle area=

14. radius of inner circle=2ft

distance from inner circle to edge=4ft

shaded area=